



"A Federal Resource"

PROGRAMMATIC OVERVIEW

NATIONAL ANALYTICAL MANAGEMENT PROGRAM (NAMP)

The Environmental Measurements Laboratory supports the National Analytical Management Program whose objectives are to assure the DOE's Office of Environmental Management (EM) of credible, cost-effective data for environmental decision making and compliance. EML provides NAMP with the following programs: the QAP radiological performance evaluation, quality control materials, gamma spectrometry data evaluation, methods validation and intergovernmental collaboration

Descriptions

EML's Quality Assessment Program (QAP) is an external, independent performance evaluation program designed to test the quality of environmental radiological measurements reported by DOE contractor and subcontractor laboratories. The program provides EM with complex-wide comparability of environmental radiological analyses for characterization, site survey and monitoring activities. Technical assistance is provided to QAP participants with deficiencies. (See Fact Sheet)

As part of the QAP, EML provides quality control materials for corrective actions, methods evaluation and batch control as requested by the participating laboratories. Site-specific materials are developed in collaboration with DOE facilities.

EML's Gamma Spectrometry Data Evaluation Program provides NAMP with an assessment of the capabilities of DOE laboratories and contractors to perform routine gamma-ray spectra analyses required for EM projects and site characterizations.

EML provides methods development and validation and analytical instrument verification. The analytical procedures developed are available in the EML-300 Manual. (See Fact Sheet)

EML promotes the acceptance by regulators and the analytical community of modifications in analytical requirements, *in situ* and field measurements, and advances in project planning and quality systems through participation in standards organizations and interagency work groups.

EML is active in the promotion of traceability of radioassay measurements to NIST under the guidelines of the ANSI 42.23 standard.

Activities and Accomplishments

- **Published** the Semi-Annual Report for the 48th distribution of the EML Quality Assessment Program (EML-596) in July 1998. The report presents an evaluation of 3127 reported analyses by 130 laboratories. Analyses were tested in four matrices: air filters, water, soil and vegetation.
- **Represents** EM on the Multi-Agency Radiation Laboratory Analytical Procedures Manual (MARLAP) Work Group developing guidance to promote the generation of consistent and comparable laboratory data in support of assessment and cleanup of contaminated sites.



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Activities and Accomplishments (con't)

- **Active** in the standard setting activities of ASTM Committee D19.04 on Radiochemical Methods of Analyses for Water and Water Deposits.
- **Participates** as a Representative (voting member) to the National Environmental Laboratory Accreditation Conference (NELAC), an association sponsored by EPA to foster the development of national performance standards for environmental laboratories to be implemented by state and federal accrediting authorities.
- **Member** of ANS/ANSI Committee 41.5 developing guidance on radiological data validation procedures.
- **Member** of ANSI Committee 42.23 on Measurement and Associated Instrument Quality Assurance for Radioassay Laboratories.
- **Member** of ASTM C26.05 Committee on Nuclear Fuel Cycle, Task Group on Environmental Methods.
- **Member** of Board of Directors of DOE Analytical Managers Group which facilitates improvements in the analytical chemistry operations within the DOE complex.
- **Member** of the Metrology Steering Committee of DOE's Technical Standards Program to support the use of voluntary standards and conformance with federal/public law to highlight the benefits of a solid metrology program at all DOE sites
- **Member** of National NIST Radioassay Traceability Steering Committee to establish the mechanism and protocol for full implementation of the traceability of ANSI 42.23 on Measurement and Associated Instrument Quality Assurance for Radioassay Laboratories.
- **Invited** to participate in Uranium Issues Workshop sponsored by US EPA's Office of Drinking Water Standards concerning the presence of uranium in drinking water.
- **Invited** to participate in Tritium Monitoring Workshop on tritium issues in ground water and surface water at DOE sites.

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